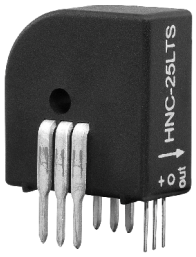
HNC-25LTS Series Hall Current Sensor

Introduction

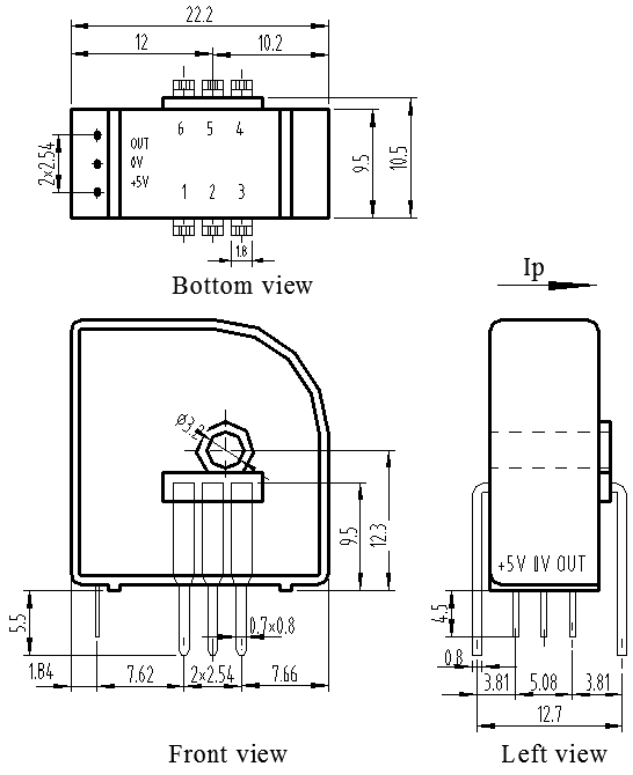
HNC-25LTS Series Hall current transducer is the new generation product based on Hall effect. It is able to measure DC, AC, pulse and other currents with irregular waves under the condition of electrical isolation.



△Electrical Parameters (Ta＝25℃)

Type		HNC-06LTS	HNC-10LTS	HNC-15LTS	HNC-25LTS
Parameters	Symbols				
Nominal measuring current	I_{PN}	6A	10A	15A	25A
Linear range	I_P	0~±18A	0~±30A	0~±45A	0~±75A
Nominal output voltage	V_{SN}	2.5V±0.625V			
Zero offset voltage	Vo	2.5V±0.025V			
Temperature drift of bridge offset	V_{OT}	300ppm/℃	200ppm/℃	150ppm/℃	100ppm/℃
Linear error	ξ_L	±0.1%			
Response time	Tr	≤1μS			
Supply voltage	Vc	+5V±5%			
Isolation voltage	V_d	2.5KV/50 or 60Hz/1min			
Power dissipation current	I_C	(15+Ip/2000) mA			
Frequency bandwidth	f	DC~100KHz(-3dB)			
Operating temperature	Ta	-25℃~+85℃			
Storage temperature	Ts	-40℃~+90℃			

△Dimension：(mm)



Features：

◆Use close-loop current transducer based on Hall effect

◆ Pass UL certification （S.N.：E466588）

◆Output voltage signal

◆Small size and space saving

◆Low temperature drift

◆Wide frequency bandwidth

◆ High immunity against external disturbance

Applications：

◆ AC variable-frequency speed control system and servo motor

◆Uninterruptible power suppers (UPS)

◆Switched-mode power supply

◆Power supply for electric welding machine

◆Battery supply

Instructions for Use：

◆Connect the wire of transducer in correct way as required.

◆Inputting measured current from punched core of transducer, the in-phase voltage signal can be obtained from output end by sampling.

◆The arrow indicates positive current direction.

Connection and adjustment：

◆OUT：Output

◆0V： 0V

◆+5V：+Vc（+5V）